## **Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

1. (Previously Presented) A computer readable storage medium storing a self-descriptive binary data structure executable on a computer processor for communicating binary data between a source device and a target device, the computer readable storage medium comprising:

a plurality of data segments, each of the plurality of data segments comprising a segment header and a data field, the segment header descriptive of the corresponding data segment;

a target data set within the data field; and

a data structure descriptor descriptive of the data structure, the data structure descriptor identifying the location of the target data set within the data field.

- 2. (Currently Amended) The computer readable storage medium of claim 1, further comprising a customizable directory descriptor, the customizable <u>directory</u> descriptor configured to provide a directory of the data stored in each of the data fields within the data structure.
- 3. (Previously Presented) The computer readable storage medium of claim 2, wherein the target data set comprises a bootstrap executable, the bootstrap executable configured to reference the customizable directory descriptor and to identify a location of a second target data set within the data structure using the customizable directory descriptor.

4. (Previously Presented) The computer readable storage medium of claim 3,

wherein the bootstrap executable is further configured to access the second target data set

within the data structure.

5. (Previously Presented) The computer readable storage medium of claim 1,

further comprising a data structure version descriptor configured to indicate a version of

the data structure.

6. (Previously Presented) The computer readable storage medium of claim 1,

further comprising a data structure name descriptor configured to indicate a name of the

data structure.

7. (Previously Presented) The computer readable storage medium of claim 1,

further comprising a data structure type descriptor configured to indicate a type of the

data structure.

8. (Previously Presented) The computer readable storage medium of claim 1,

further comprising a data structure count descriptor configured to indicate a number of

the plurality of data segments within the data structure.

9. (Previously Presented) The computer readable storage medium of claim 1,

wherein the target data set is an executable.

10. (Previously Presented) The computer readable storage medium of claim 1,

wherein the target data set is a code image.

11. (Previously Presented) The computer readable storage medium of claim 1,

wherein one of the plurality of data segments is an alignment data segment configured to

align the size of the data structure for at least one of error detection and correction.

Attorney Docket No. TUC920030130US1

Serial No. 10/718,420

4

Proposed Amendment and Response to Final Action

12. (Previously Presented) The computer readable storage medium of claim 1, wherein the data segment header comprises a flag field configured to store a flag, the flag descriptive of the data stored in the data field.

13. (Previously Presented) A system for communicating binary data using a self-descriptive binary data structure capable of being stored in a computer readable storage medium, the system comprising:

a communications channel;

a source communication device connected to the communications channel and configured to transmit a self-descriptive binary data structure;

a target communication device connected to the source communications device via the communications channel and configured to receive the self-descriptive binary data structure from the source communication device:

wherein the self-descriptive binary data structure comprises:

a plurality of data segments, each of the plurality of data segments comprising a segment header and a data field, the segment header descriptive of the corresponding data segment;

a target data set within the data field;

a data structure descriptor descriptive of the data structure, the data structure descriptor configured to identify the location of the target data set within the data field; and

wherein the target communication device is configured to process an executable, the executable stored in the self-descriptive binary data structure.

- 14. (Previously Presented) The system of claim 13, wherein the source communication device is further configured to generate the self-descriptive binary data structure.
- 15. (Previously Presented) The system of claim 14, wherein the source communication device is further configured to generate the self-descriptive binary data structure from a non-binary data structure.

## 16. (Cancelled)

- 17. (Previously Presented) The system of claim 13, wherein the executable comprises a bootstrap executable, the bootstrap executable configured to access a code image within the data structure.
- 18. (Previously Presented) A method for communicating binary data using a self-descriptive binary data structure, the method comprising:

generating a self descriptive binary data structure comprising:

- a plurality of data segments, each of the plurality of data segments comprising a segment header and a data field, the segment header descriptive of the corresponding data segment;
  - a target data set within the data field; and
- a data structure descriptor to the plurality of data segments, the data structure descriptor descriptive of the data structure;
- communicating the self descriptive binary data structure with a communications interface coupled with a target device; and

processing an executable that is stored in the self-descriptive binary data structure.

- 19. (Previously Presented) The method of claim 18, further comprising storing a customizable directory descriptor and providing a directory of the data stored in each of the data fields within the data structure.
- 20. (Previously Presented) The method of claim 19, further comprising storing a bootstrap executable and identifying a location of a second target data set within the data structure using the customizable directory descriptor.
- 21. (Previously Presented) The method of claim 20, further comprising accessing the second target data set within the data structure.

22. (Previously Presented) The method of claim 18, wherein generating the plurality of data segments comprises generating an alignment data segment and aligning the size of the data structure for at least one of error detection and correction.

23. (Cancelled)

24. (Previously Presented) The method of claim 18, wherein generating a plurality of data segments comprises generating the plurality of data segments from a

non-binary data structure.

25. (Cancelled)

26. (Previously Presented) The method of claim 18, wherein processing an

executable comprises processing a bootstrap executable, the bootstrap executable

configured to access a code image within the data structure.

27. (Previously Presented) A method for communicating binary data, the

method comprising:

providing a self-descriptive binary data structure at a source

communications device, the self-descriptive binary data structure having a

customizable directory descriptor, the customizable descriptor configured to

provide a directory of the data stored in each of the data fields within the data

structure;

communicating the self-descriptive binary data structure between a source

communication device and a target communication device via a communications

network;

processing the self-descriptive binary data structure at the target

communications device; and

executing a bootstrap executable, the bootstrap executable configured to

reference the customizable directory descriptor and to identify a location of a

Attorney Docket No. TUC920030130US1 Serial No. 10/718,420

7

second target data set within the data structure using the customizable directory

descriptor.

28. (Original) The method of claim 27, wherein providing the self-descriptive

binary data structure comprises converting a non-binary data structure into the self-

descriptive binary data structure.

29. (Previously Presented) A computer readable storage medium comprising

computer readable code for execution on a computer processor to carry out a method for

communicating binary data using a self-descriptive binary data structure, the method

comprising:

generating a plurality of data segments, each of the plurality of data

segments comprising a segment header and a data field, the segment header

descriptive of the corresponding data segment;

attaching a data structure descriptor to the plurality of data segments, the

data structure descriptor descriptive of the data structure;

identifying a target data set within the data field;

storing a location of the target data set in the data structure descriptor; and

sending the self-descriptive binary data structure to a target device.

30. (Original) The computer readable storage medium of claim 29, wherein

the method further comprises storing a customizable directory descriptor and providing a

directory of the data stored in each of the data fields within the data structure.

31. (Original) The computer readable storage medium of claim 30, wherein

the method further comprises storing a bootstrap executable and identifying a location of

a second target data set within the data structure using the customizable directory

8

descriptor.

Attorney Docket No. TUC920030130US1

Serial No. 10/718,420

Proposed Amendment and Response to Final Action

32. (Original) The computer readable storage medium of claim 31, wherein

the method further comprises accessing the second target data set within the data

structure.

33. (Original) The computer readable storage medium of claim 29, wherein

the method further comprises wherein the data structure descriptor comprises at least one

of data structure version descriptor, a data structure name descriptor, a data structure type

descriptor, and a data structure count descriptor.

34. (Original) The computer readable storage medium of claim 29, wherein

the method further comprises generating an alignment data segment and aligning the size

of the data structure for at least one of error detection and correction.

35. (Original) The computer readable storage medium of claim 29, wherein

the method further comprises storing a flag in the data segment header, the flag

descriptive of the data stored in the data field.

36. (Original) The computer readable storage medium of claim 29, wherein

the method further comprises communicating the self-descriptive binary data structure

between a source communications device and a target communications device.

37. (Original) The computer readable storage medium of claim 29, wherein

the method further comprises generating the plurality of data segments from a non-binary

data structure.

38. (Original) The computer readable storage medium of claim 29, wherein

the method further comprises processing an executable that is stored in the self-

9

descriptive binary data structure.

Attorney Docket No. TUC920030130US1

Serial No. 10/718,420

Proposed Amendment and Response to Final Action

39. (Original) The computer readable storage medium of claim 29, wherein the method further comprises processing a bootstrap executable, the bootstrap executable configured to access a code image within the data structure.

40. (Previously Presented) An apparatus for communicating binary data using a self-descriptive binary data structure, the apparatus comprising:

means for generating a plurality of data segments, each of the plurality of data segments comprising a segment header and a data field, the segment header descriptive of the corresponding data segment;

means for attaching a data structure descriptor to the plurality of data segments, the data structure descriptor descriptive of the data structure;

means for identifying a target data set within the data field;

means for storing a location of the target data set in the data structure descriptor on a storage device; and

means for sending the self-descriptive binary data structure to a target device.